Roland®

FOOT CONTROLLER
GFC-50

Owner's Manual

Thank you, and congratulations on your choice of the Roland GFC-50 FOOT CONTROLLER.

The GFC-50 is a foot controller that can control other MIDI instruments.

Before using this unit, carefully read the sections entitled: "USING THE UNIT SAFELY" and "IMPORTANT NOTES" (p. 2–3; p. 5). These sections provide important information concerning the proper operation of the unit. Additionally, in order to feel assured that you have gained a good grasp of every feature provided by your new unit, Owner's manual should be read in its entirety. The manual should be saved and kept on hand as a convenient reference.

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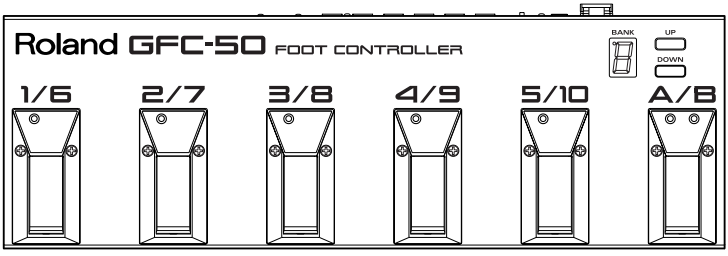


USING THE UNIT SAFELY

INSTRUCTIONS FOR THE PREVENTION OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

About ⚠WARNING and ⚠CAUTION Notices

⚠WARNING	Used for instructions intended to alert the user to the risk of death or severe injury should the unit be used improperly.
⚠CAUTION	Used for instructions intended to alert the user to the risk of injury or material damage should the unit be used improperly. * Material damage refers to damage or other adverse effects caused with respect to the home and all its furnishings, as well to domestic animals or pets.

About the Symbols

⚠	The △ symbol alerts the user to important instructions or warnings.The specific meaning of the symbol is determined by the design contained within the triangle. In the case of the symbol at left, it is used for general cautions, warnings, or alerts to danger.
	The ⃠ symbol alerts the user to items that must never be carried out (are forbidden). The specific thing that must not be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the unit must never be disassembled.
	The ● symbol alerts the user to things that must be carried out. The specific thing that must be done is indicated by the design contained within the circle. In the case of the symbol at left, it means that the power-cord plug must be unplugged from the outlet.

ALWAYS OBSERVE THE FOLLOWING

⚠WARNING

- Before using this unit, make sure to read the instructions below, and the Owner's Manual.

- Do not open (or modify in any way) the unit or its AC adaptor.

- Do not attempt to repair the unit, or replace parts within it (except when this manual provides specific instructions directing you to do so). Refer all servicing to your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.

- Never use or store the unit in places that are:
  - Subject to temperature extremes (e.g., direct sunlight in an enclosed vehicle, near a heating duct, on top of heat-generating equipment); or are
  - Damp (e.g., baths, washrooms, on wet floors); or are
  - Humid; or are
  - Exposed to rain; or are
  - Dusty; or are
  - Subject to high levels of vibration.

- Make sure you always have the unit placed so it is level and sure to remain stable. Never place it on stands that could wobble, or on inclined surfaces.

⚠WARNING

- Be sure to use only the AC adaptor supplied with the unit. Also, make sure the line voltage at the installation matches the input voltage specified on the AC adaptor's body. Other AC adaptors may use a different polarity, or be designed for a different voltage, so their use could result in damage, malfunction, or electric shock.

- Do not excessively twist or bend the power cord, nor place heavy objects on it. Doing so can damage the cord, producing severed elements and short circuits. Damaged cords are fire and shock hazards!

- Do not allow any objects (e.g., flammable material, coins, pins); or liquids of any kind (water, soft drinks, etc.) to penetrate the unit.

- Immediately turn the power off, remove the AC adaptor from the outlet, and request servicing by your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page when:
  - The AC adaptor or the power-supply cord has been damaged; or
  - Objects have fallen into, or liquid has been spilled onto the unit; or
  - The unit has been exposed to rain (or otherwise has become wet); or
  - The unit does not appear to operate normally or exhibits a marked change in performance.

⚠ WARNING

- In households with small children, an adult should provide supervision until the child is capable of following all the rules essential for the safe operation of the unit.

- Protect the unit from strong impact. (Do not drop it!)

- Do not force the unit's power-supply cord to share an outlet with an unreasonable number of other devices. Be especially careful when using extension cords—the total power used by all devices you have connected to the extension cord's outlet must never exceed the power rating (watts/amperes) for the extension cord. Excessive loads can cause the insulation on the cord to heat up and eventually melt through.

- Before using the unit in a foreign country, consult with your retailer, the nearest Roland Service Center, or an authorized Roland distributor, as listed on the "Information" page.

- Batteries must never be recharged, heated, taken apart, or thrown into fire or water.

⚠ CAUTION

- The unit and the AC adaptor should be located so their location or position does not interfere with their proper ventilation.

- Always grasp only the plug or the body of the AC adaptor when plugging into, or unplugging from, an outlet or this unit.

- Whenever the unit is to remain unused for an extended period of time, disconnect the AC adaptor.

- Try to prevent cords and cables from becoming entangled. Also, all cords and cables should be placed so they are out of the reach of children.

⚠ CAUTION

- Never climb on top of, nor place heavy objects on the unit.

- Never handle the AC adaptor body, or its plugs, with wet hands when plugging into, or unplugging from, an outlet or this unit.

- Before moving the unit, disconnect the AC adaptor and all cords coming from external devices.

- Before cleaning the unit, turn off the power and unplug the AC adaptor from the outlet (p. 7).

- Whenever you suspect the possibility of lightning in your area, disconnect the AC adaptor from the outlet.

- If used improperly, batteries may explode or leak and cause damage or injury. In the interest of safety, please read and observe the following precautions (p. 14).
  - Carefully follow the installation instructions for batteries, and make sure you observe the correct polarity.
  - Avoid using new batteries together with used ones. In addition, avoid mixing different types of batteries.
  - Remove the batteries whenever the unit is to remain unused for an extended period of time.
  - If a battery has leaked, use a soft piece of cloth or paper towel to wipe all remnants of the discharge from the battery compartment. Then install new batteries. To avoid inflammation of the skin, make sure that none of the battery discharge gets onto your hands or skin. Exercise the utmost caution so that none of the discharge gets near your eyes. Immediately rinse the affected area with running water if any of the discharge has entered the eyes.
  - Never keep batteries together with metallic objects such as ballpoint pens, necklaces, hairpins, etc.

- Used batteries must be disposed of in compliance with whatever regulations for their safe disposal that may be observed in the region in which you live.

FEATURES

- 6 sturdy pedals mounted on a solid baseboard.
- All Program Change information can be transmitted using only the pedals and buttons.
- The GFC-50 can accept connection of two external expression pedals and two foot switches. This allows you to control the connected MIDI instrument in real time with Control Change messages.
- The GFC-50 employs a two-way Battery/AC power supply.
- During battery operation the Economy Mode can be used to effectively extend battery life by about twice as long as usual. When the battery voltage is low, a warning indicator will appear.
- A Cord Hook is provided to prevent the unit from being disconnected accidentally during AC operation.

IMPORTANT NOTES

In addition to the items listed under "USING THE UNIT SAFELY" on page 2, please read and observe the following:

Power Supply: Use of Batteries

- Do not use this unit on the same power circuit with any device that will generate line noise (such as an electric motor or variable lighting system).
- The AC adaptor will begin to generate heat after long hours of consecutive use. This is normal, and is not a cause for concern.
- The use of an AC adaptor is recommended as the unit's power consumption is relatively high. Should you prefer to use batteries, please use the alkaline type.
- When installing or replacing batteries, always turn off the power on this unit and disconnect any other devices you may have connected. This way, you can prevent malfunction and/or damage to speakers or other devices.
- Before connecting this unit to other devices, turn off the power to all units. This will help prevent malfunctions and/or damage to speakers or other devices.

Placement

- Using the unit near power amplifiers (or other equipment containing large power transformers) may induce hum. To alleviate the problem, change the orientation of this unit; or move it farther away from the source of interference.
- This device may interfere with radio and television reception. Do not use this device in the vicinity of such receivers.
- To avoid possible breakdown, do not use the unit in a wet area, such as an area exposed to rain or other moisture.

Maintenance

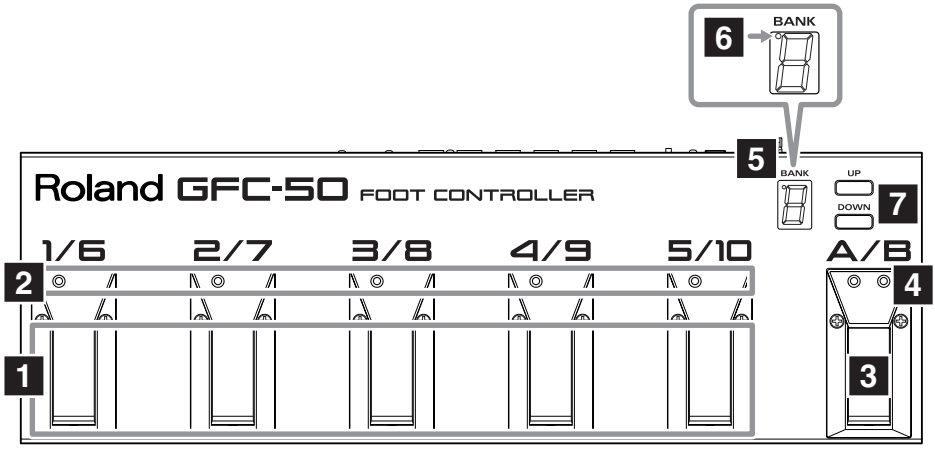
- For everyday cleaning wipe the unit with a soft, dry cloth or one that has been slightly dampened with water. To remove stubborn dirt, use a cloth impregnated with a mild, non-abrasive detergent. Afterwards, be sure to wipe the unit thoroughly with a soft, dry cloth.
- Never use benzine, thinners, alcohol or solvents of any kind, to avoid the possibility of discoloration and/or deformation.

Additional Precautions

- Use a reasonable amount of care when using the unit's buttons, sliders, or other controls; and when using its jacks and connectors. Rough handling can lead to malfunctions.
- Never strike or apply strong pressure to the display.
- When connecting / disconnecting all cables, grasp the connector itself—never pull on the cable. This way you will avoid causing shorts, or damage to the cable's internal elements.
- To avoid disturbing your neighbors, try to keep the unit's volume at reasonable levels (especially when it is late at night).
- When you need to transport the unit, package it in the box (including padding) that it came in, if possible. Otherwise, you will need to use equivalent packaging materials.
- Use only the specified expression pedal (EV-5; sold separately). By connecting any other expression pedals, you risk causing malfunction and/or damage to the unit.

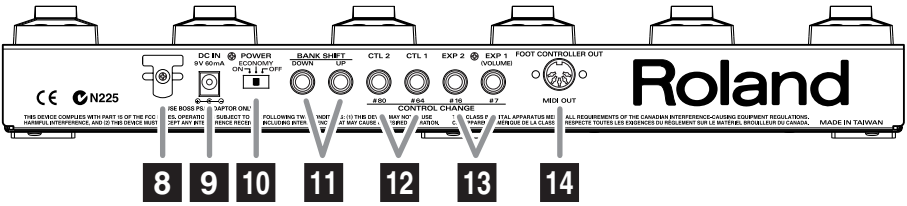
PANEL DESCRIPTIONS

Front Panel



1. Number Pedals
2. Number Indicators
3. Number Shift Pedal
4. Number Shift Indicators (A/B)
5. BANK Display
6. Dot
7. Bank Shift Buttons (UP/DOWN)

Rear Panel



8. Cord Hook

9. AC Adaptor Jack

10. POWER Switch

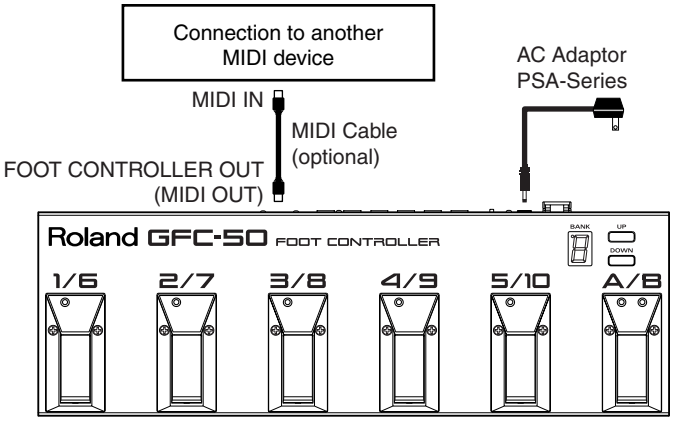
11. BANK SHIFT Jacks (UP/DOWN) ➔ p. 10

12. CTL (Control Pedal) Jacks (1/2) ➔ p. 12

13. EXP (Expression Pedal) Jacks (1/2) ➔ p. 12

14. FOOT CONTROLLER OUT Connector

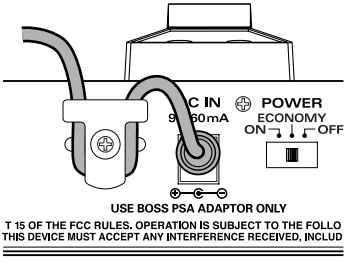
CONNECTIONS



NOTE To prevent malfunction and/or damage to speakers or other devices, always turn down the volume, and turn off the power on all devices before making any connections.

NOTE If there are batteries in the unit while an AC adaptor is being used, normal operation will continue should the line voltage be interrupted (power blackout or power cord disconnection).

NOTE To prevent the inadvertent disruption of power to your unit (should the plug be pulled out accidentally), and to avoid applying undue stress to the AC adaptor jack, anchor the power cord using the cord hook, as shown in the illustration.

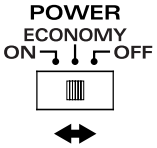

POWER
ECONOMY
ON
OFF
USE BOSS PSA ADAPTOR ONLY
T 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLO
THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUD

POWER ON

NOTE

Once the connections have been completed (p. 8), turn on power to your various devices in the order specified. By turning on devices in the wrong order, you risk causing malfunction and/or damage to speakers and other devices.

Ensure that all connections are correct and secure. Turn the GFC-50's Power switch to the ON or ECONOMY position. Turn on the other devices.



■ About the Economy Mode

When the GFC-50 is being operated with batteries, the Economy mode can be used to effectively extend battery life by about twice as long as usual.
The Bank Display may become somewhat dimmer and it may flicker a little, but this is not an indication of a problem.

* *The default MIDI channel of the GFC-50 is channel 1. Refer to "CHANGING MIDI CHANNEL" (p. 13) if you want to change the default setting.*

PROGRAM CHANGE NUMBERS

A Program Change number is selected using the "Bank" button and "Number" pedals. The Program Change message is transmitted the moment the Bank Shift button or Number pedal is pressed.

Changing Banks

Pressing a Bank Shift button (UP or DOWN) changes Bank numbers in sequence (0 to 12). The Bank Display shows the Bank Number currently selected.

Display	0	1	2		10	11	12
Banks	0	1	2		10	11	12

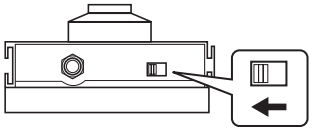
* *When Bank 10, 11 or 12 is selected, the Dot in the upper left hand corner of the display will light.*

Bank numbers 0 to 12 correspond to Program Change numbers as indicated in the following:

Banks	0	1	2		10	11	12
Program Change Number	0	10	20		100	110	120

You can change Bank numbers using a pedal by connecting a foot switch (BOSS FS-5U: optional) to the BANK SHIFT Jacks (UP/DOWN) on the rear of the GFC-50.

* *When using the FS-5U, set the polarity switch as shown below.*



Polarity switch

Changing Numbers

Using the Number Shift (A/B) Pedal and the Number Pedals, you can select numbers 1 to 10. Numbers 1 to 10 correspond to Program Change numbers 1 to 10 respectively. By selecting A or B with the Number Shift Pedal, you can select numbers 1 to 5 or 6 to 10 as shown below.

	1/6	2/7	3/8	4/9	5/10
A	1	2	3	4	5
B	6	7	8	9	10

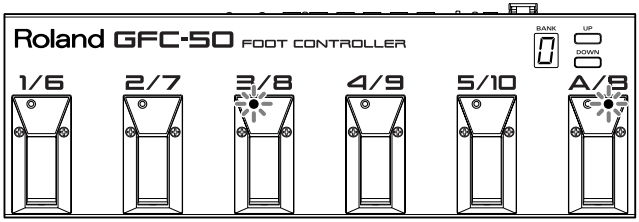
With the Number Indicators and Number Shift Indicators, you can determine what number is currently set.

Setting a Program Change Number

Example 1:

Setting Program Change number 8.

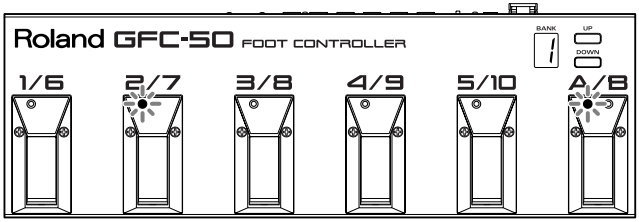
0 (Bank: 0) + 8 (Number) = 8



Example 2:

Setting Program Change number 12.

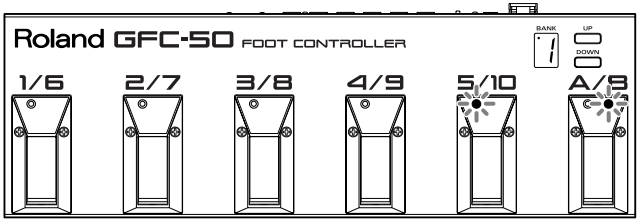
10 (Bank: 1) + 2 (Number) = 12



Example 3:

Setting Program Change number 120.

110 (Bank: 11) + 10 (Number) = 120



* *The highest Program Change number is 128. Setting a number higher than 128 will cause the Pedal Indicators to flash, indicating that no Program Change message is being transmitted.*

CONTROL CHANGE MESSAGES

The GFC-50 can accept connection of a maximum of two external expression pedals (Roland EV-5: optional) and two foot switches (BOSS FS-5L/FS-5U: optional). This allows you to control a connected MIDI instrument in real time with Control Change messages. The Control Change jacks on the rear of the GFC-50 correspond to the following Control Change numbers:

Expression Pedal

EXP 1: Volume (#7)

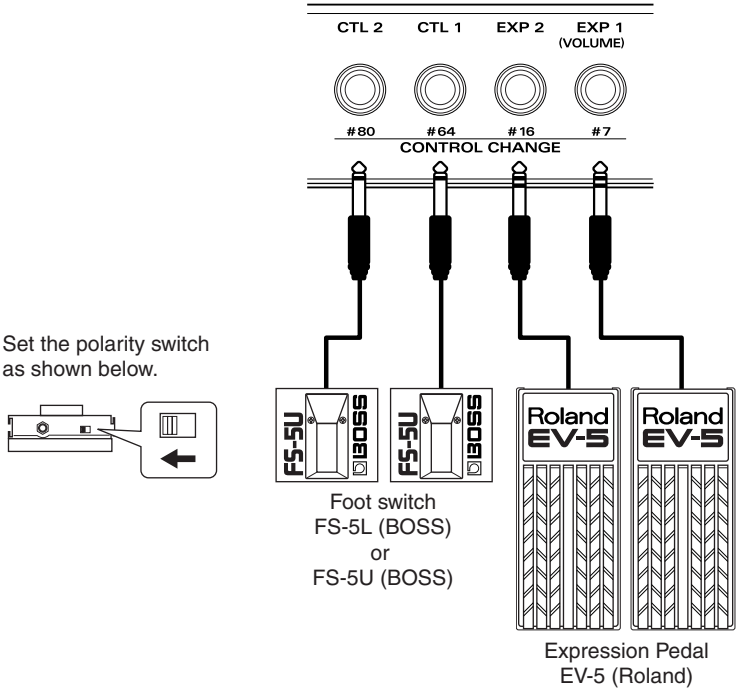
EXP 2: General Purpose Controller (#16)

Control Peal

CTL 1: Hold (#64)

CTL 2: General Purpose Controller (#80)

* *"#" represents a Control Change number.*



* *Either a latch-type (FS-5L), or momentary-type (FS-5U) footswitch can be connected to each CTL Jack.*

Latch Type: Pressing the pedal turns a connected unit (or function) ON or OFF.

Momentary Type: Only while the pedal is being pressed, the ON/OFF status can be changed.

NOTE Use only the specified expression pedal (EV-5; sold separately). By connecting any other expression pedals, you risk causing malfunction and/or damage to the unit.

CHANGING MIDI CHANNEL

The GFC-50's default MIDI channel is channel 1. If you wish to change the default channel, follow this procedure:

* *The MIDI channel you set will not be stored in memory. It will be necessary to set the MIDI channel each time the unit is turned on.*

1. Switch on the unit while holding the Number Shift Pedal (A/B) down.

2. Select the desired MIDI channel using the Bank Shift Buttons (UP/DOWN).
(The Bank Display shows the MIDI channel currently selected.)

Display	1	2	3	.....	10	11	12	.....	16
MIDI CHANNEL	1	2	3	.....	10	11	12	.....	16

* *When any of MIDI channels 10 to 16 is selected, the Dot in the upper left hand corner of the display will light.*

3. Press the Number Shift Pedal (A/B). (The MIDI channel has now been set.)

BATTERY REPLACEMENT

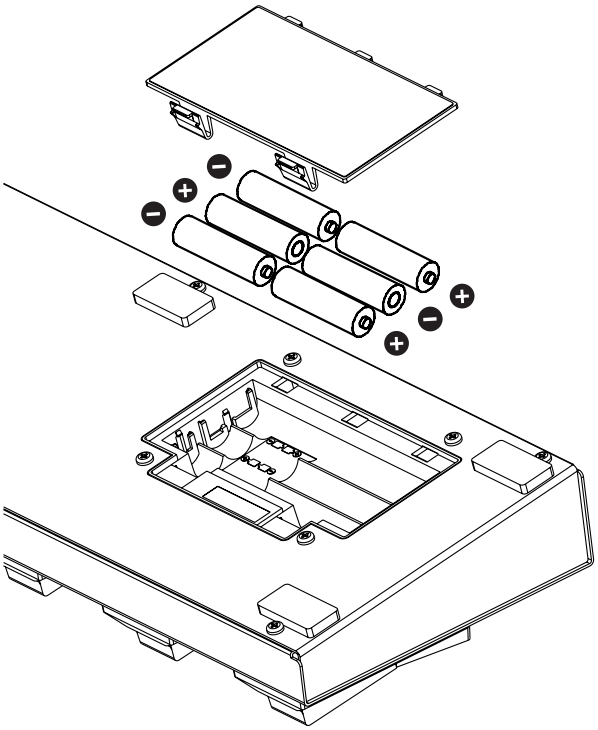
When to replace the batteries

NOTE

When operating on battery power only, the unit's indicator will become flash when battery power gets too low. Replace the battery as soon as possible.

* *Even if the unit is set to ON, it will automatically switch to the ECONOMY mode when the indicators begin to flash. The indicators will continue to flash until the batteries are replaced.*

How to replace batteries



* *Do not mix new batteries with used ones. Do not mix batteries of different types (e.g., carbon and alkaline).*

* *Be sure to insert the batteries correctly (ensure correct polarity).*

MIDI IMPLEMENTATION

FOOT CONTROLLER **Date: Oct. 1, 2000**
Model: GFC-50 **Version: 1.00**

1. TRANSMITTED DATA

●Control change

Status	Second	Third
BnH	ccH	vvH

n = MIDI channel number	0H - FH (ch.1 - ch.16)
cc = Control number	07H, 10H, 40H, 50H (7, 16, 64, 80)
vv = Control Value	00H - 7FH (Prog.1 - Prog.128)

This message can be transmitted when the external pedal is connected.

●Program change

Status	Second
CnH	ppH

n = MIDI channel number	0H - FH (ch.1 - ch.16)
pp = Program number	00H - 7FH (Prog.1 - Prog.128)

This message is transmitted when the patch of GFC-50 is changed.

FOOT CONTROLLER
Model GFC-50

MIDI Implementation Chart

Date : Oct. 1, 2000
Version : 1.00

Function...		Transmitted	Recognized	Remarks
Basic Channel	Default	1	X	
	Changed	1–16	X	
Mode	Default	X	X	
	Messages	X	X	
	Altered	**********		
Note Number :	True Voice	X	X	
		**********		
Velocity	Note ON	X	X	
	Note OFF	X	X	
After Touch	Key's	X	X	
	Ch's	X	X	
Pitch Bend		X	X	
Control Change	7	O EXP1	X	Volume *1
	16	O EXP2	X	General purpose controller *1
	64	O CTL1	X	Hold *1
	80	O CTL2	X	General purpose controller *1

Prog Change : True #	O 0–127	X	Program Change Number 1–128
System Exclusive	X	X	
System Common : Song Pos : Song Sel : Tune	X X X	X X X	
System Real Time : Clock : Command	X X	X X	
Aux Message : All sound off : Local ON/OFF : All Notes OFF : Active Sense : Reset	X X X X X	X X X X X	
Notes	* 1 Can be transmitted when the external pedal is connected.		

Mode 1 : OMNI ON, POLY Mode 2 : OMNI ON, MONO O : Yes

Mode 3 : OMNI OFF, POLY Mode 4 : OMNI OFF, MONO X : No

SPECIFICATIONS

GFC-50: Foot Controller

Controls
Pedal x 6
Bank Shift Buttons (UP/DOWN)
Power Switch

Display
Bank Display (7 segment)

Indicators
Number Indicators x 5
Number Shift Indicators (A/B)

Connectors
FOOT CONTROLLER OUT Connector
BANK SHIFT Jacks (UP/DOWN)
CTL (Control Pedal) Jacks (1/2)
EXP (Expression Pedal) Jacks (1/2)
AC Adaptor Jack

Power
DC 9V: AC Adaptor (PSA series)/
1.5V R6/LR6 (AA) type x 6 (optional)

Power Consumption (under normal conditions)
40 mA (in the "ON" mode)
28 mA (in the "ECONOMY" mode)

* ***Expected battery life under continuous use:***
Carbon:
15 hours or greater (in the "ON" mode)
30 hours or greater (in the "ECONOMY" mode)
Alkaline:
40 hours or greater (in the "ON" mode)
80 hours or greater (in the "ECONOMY" mode)

These figures will vary depending on the actual conditions of use.

Dimensions
423 (W) x 135 (D) x 40 (H) mm
16-11/16 (W) x 5-3/8 (D) x 1-5/8 (H) inches

Weight
1.6 kg/3 lbs 9 oz (excluding AC adaptor)

Accessories
Owner's Manual
AC Adaptor (PSA series)

Options
Foot Switch:
FS-5U (BOSS)
FS-5L (BOSS)
Expression Pedal:
EV-5 (Roland)

NOTE

In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

For EU Countries

CE

This product complies with the requirements of European Directive 89/336/EEC.

For the USA

FEDERAL COMMUNICATIONS COMMISSION
RADIO FREQUENCY INTERFERENCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Unauthorized changes or modification to this system can void the users authority to operate this equipment.
This equipment requires shielded interface cables in order to meet FCC class B Limit.

For Canada

NOTICE

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

AVIS

Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

Information

When you need repair service, call your nearest Roland Service Center or authorized Roland distributor in your country as shown below.

AFRICA

EGYPT

Al Fanny Trading Office
9, EBN Hagar Al Askalany Street,
ARD E1 Golf, Heliopolis,
Cairo 11341, EGYPT
TEL: 20-2-417-1828

REUNION

Maison FO - YAM Marcel
25 Rue Jules Hermann,
Chaudron - BP79 97 491
Ste Clotilde Cedex,
REUNION ISLAND
TEL: (0262) 218-429

SOUTH AFRICA

T.O.M.S. Sound & Music (Pty)Ltd.
2 ASTRON ROAD DENVER
JOHANNESBURG ZA 2195,
SOUTH AFRICA
TEL: (011)417 3400

Paul Bothner(PTY)Ltd.
Royal Cape Park, Unit 24
Londonderry Road, Ottery 7800
Cape Town, SOUTH AFRICA
TEL: (021) 799 4900

ASIA

CHINA

Roland Shanghai Electronics Co.,Ltd.
5F. No.1500 Pingliang Road
Shanghai 200090, CHINA
TEL: (021) 5580-0800

Roland Shanghai Electronics Co.,Ltd.
(BEIJING OFFICE)
10F. No.18 3 Section Anhuaxili
Chaoyang District Beijing
100011 CHINA
TEL: (010) 6426-5050

HONG KONG

Tom Lee Music Co., Ltd.
Service Division
22-32 Pun Shan Street, Tsuen Wan, New Territories,
HONG KONG
TEL: 2415 0911

Parsons Music Ltd.
8th Floor, Railway Plaza, 39
Chatham Road South, T.S.T,
Kowloon, HONG KONG
TEL: 2333 1863

INDIA

Rivera Digitec (India) Pvt. Ltd.
411, Nirman Kendra
Mahalaxmi Flats Compound
Off. Dr. Edwin Moses Road,
Mumbai-400011, INDIA
TEL: (022) 2493 9051

INDONESIA

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